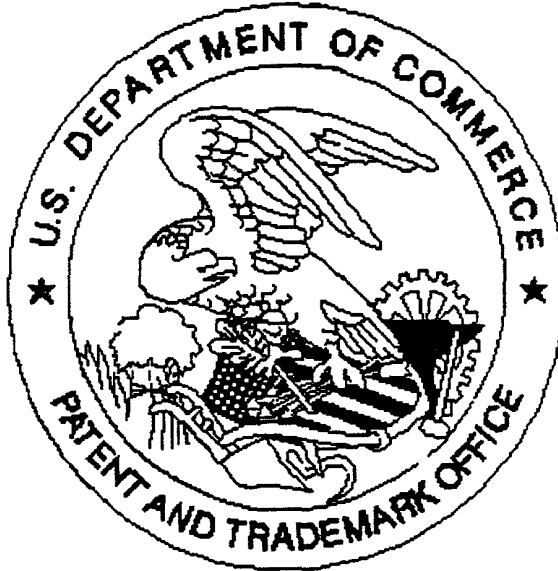


Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25	°C
Time	0-120	min
Agitation speed	150	rpm
Batch size	100	mL
Adsorbent dose	0.1-1.0	g/L
Adsorbent type	Activated carbon	
Adsorbent surface area	1000	m <sup>2</sup> /g
Adsorbent pore volume	0.5	cm <sup>3</sup> /g
Adsorbent density	1.5	g/cm <sup>3</sup>
Adsorbent particle size	0.25-0.5	mm
Adsorbent moisture content	5	%
Adsorbent ash content	10	%
Adsorbent fixed carbon	85	%
Adsorbent volatile matter	5	%
Adsorbent total sulfur	0.1	%
Adsorbent total nitrogen	0.2	%
Adsorbent total phosphorus	0.05	%
Adsorbent total potassium	0.1	%
Adsorbent total calcium	0.1	%
Adsorbent total magnesium	0.1	%
Adsorbent total iron	0.1	%
Adsorbent total zinc	0.1	%
Adsorbent total copper	0.1	%
Adsorbent total lead	0.1	%
Adsorbent total chromium	0.1	%
Adsorbent total nickel	0.1	%
Adsorbent total cobalt	0.1	%
Adsorbent total manganese	0.1	%
Adsorbent total sodium	0.1	%
Adsorbent total chlorine	0.1	%
Adsorbent total bromine	0.1	%
Adsorbent total iodine	0.1	%
Adsorbent total fluorine	0.1	%
Adsorbent total boron	0.1	%
Adsorbent total aluminum	0.1	%
Adsorbent total silicon	0.1	%
Adsorbent total oxygen	0.1	%
Adsorbent total hydrogen	0.1	%
Adsorbent total carbon	0.1	%
Adsorbent total nitrogen	0.1	%
Adsorbent total phosphorus	0.1	%
Adsorbent total potassium	0.1	%
Adsorbent total calcium	0.1	%
Adsorbent total magnesium	0.1	%
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Adsorbent total silicon	0.1	%
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Adsorbent total hydrogen	0.1	%
Adsorbent total carbon	0.1	%
Adsorbent total nitrogen	0.1	%
Adsorbent total phosphorus	0.1	%
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Adsorbent total potassium	0.1	%
Adsorbent total calcium	0.1	%
Adsorbent total magnesium	0.1	%
Adsorbent total iron	0.1	%
Adsorbent total zinc	0.1	%
Adsorbent total copper	0.1	%
Adsorbent total lead	0.	

	Patient #1	Patient #2	Patient #3
<b>MIR parameter</b>			
K21	0.02830	0.04091	0.04370
<b>Genes associated with inflammation</b>			
Intercellular adhesion molecule 2	1.32	1.87	1.29
Intercellular adhesion molecule 3	0.22	0.58	0.44
Platelet/endothelial cell adhesion molecule	4.21	8.50	11.99
Selectin E (endothelial adhesion molecule 1)	1.50	1.55	2.99
Vascular cell adhesion molecule 1	1.61	3.61	3.52
<b>Genes potentially associated with angiogenesis</b>			
CD34 antigen	10.14	20.38	19.91
Fibronectin	0.59	0.53	0.48
Fibroblast growth factor 2 (basic)	1.17	2.12	1.77
Integrin, alpha V (vitronectin receptor, alpha)	0.56	1.66	1.13
Integrin, beta 3	N/A	0.25	0.52
Vascular endothelial growth factor	N/A	0.78	0.90
Vascular endothelial growth factor B	2.15	2.22	1.39
Vascular endothelial growth factor B (2nd copy)	N/A	2.05	1.50
Vascular endothelial growth factor C	0.67	0.77	0.93
Vitronectin	0.35	0.08	0.19

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DRAWINGS FIG. 1a, 5A, 5B, 7 ARE DARK

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